

EXHIBIT A

*"Annotated Marked-up Copy" of Figure 1 as described in the Preliminary Amendment
filed herewith*

Submitted in conjunction with the Preliminary Amendment on

(Date:) _____

Sent in connection with the Divisional Application of parent U.S. Patent
Application Number 09/831,630

1/5

 β Gal-T5

-78	CCACCTCAGCCTCCTAGCATAAACTAGACACATCCTCATGCTTTTGAGGTCTAATCATTGGATTTTGTTCCTTTCAG	-1
1	<u>M A F P K M R L M Y I C L L V L G A L C L Y P S M Y</u>	26
1	<u>ATGGCTTTCCCGAAGATGAGATTGATGTATATCTGCCTTCTGGTTCTGGGGCTCTTTGTTTGATTTTAGCATGTAC</u>	78
27	S L N P F K E Q S F V Y K K D G N F L K L P D T D C	52
79	<u>AGTCTAATCCTTTCAAAGAACAGTCCTTTGTTTACAAGAAAGACGGGAACCTCCTTAAGCTCCAGATACAGACTGC</u>	156
53	R Q T P P F L V L L V T S S H K Q L A E R M A I R Q	78
157	AGGCAGACACCTCCCTTCCTCGTCCTGCTGGTGACCTCATCCACAAACAGTTGGCTGAGCGCATGGCCATCCGGCAG	234
79	T W G K E R T V K G K Q L K T F F L L G T T S S A A	104
235	ACGTGGGGGAAAGAGAGGACGGTGAAGGAAAGCAGCTGAAGACATTCTTCCTCCTGGGGACCACCAGCAGTGCAGCG	312
105	E T K E V D Q E S Q R H G D I I Q K D F L D V Y Y N*	130
313	GAAACAAAAGAGGTGGACCAGGAGAGCCAGCGACACGGGGACATTATCCAGAAGGATTTCTAGACGCTATTACAT	390
131	L T L K T M M G I E W V H R F C P Q A A F V M K T D	156
391	CTGACCCTGAAGACCATGATGGGCATAGAATGGGTCCATCGCTTTTGTCCTCAGGCGGCGTTTGTGATGAAAACAGAC	468
157	S D M F I N V D Y L T E L L L K K N* R T T R F F T G	182
469	TCAGACATGTTTCATCAATGTTGACTATCTGACTGAACGCTTCTGAAGAAAACAGAACAACCAGGTTTTTCACTGGC	546
183	F L K L N E F P I R Q P F S K W F V S K S E Y P W D	208
547	TTCTTGAAACTCAATGAGTTTCCCATCAGGCAGCCATTAGCAAGTGTTTGTGTCAGTAAATCTGAATATCCGTGGGAC	624
209	R Y P P F C S G T G Y V F S G D V A S Q V Y N* V S K	234
625	AGGTACCCACCATTCTGCTCCGGCACCAGGCTACGTGTTTCTGGCGAGTGGCGAGTCAGGTGTACAATGTCTCCAAG	702
235	S V P Y I K L E D V F V G L C L E R L N F R L E E L	260
703	AGCGTCCCATACATTAAACTGGAAGACGTGTTTGTTGGGGCTCTGCCTCGAAAGGCTGAACATCAGATTGGAGGAGCTC	780
261	H S Q P T F F P G G L R F S V C L F R R I V A C H F	286
781	CACTCCAGCCGACCTTTTCCAGGGGGCTTACGCTTCTCCGTATGCCTCTTCAGGAGGATCGTGGCCTGCCACTTC	858
287	I K P R T L L D Y W Q A L E N S R G E D C P P V *	310
859	ATCAAGCCTCGGACTCTCTTGGACTACTGGCAGGCTCTAGAGAATTCCTGGGGGGAAGATTGTCGCTGTCTGA...	933

FIG. 1

β 3Gal-T5

-78 CCACCTCAGCCTCCTAGCATAAACTAGACACATCCTCATGCTTTTGAGGTCTAATCATTGGATTTTGTTCCTTTTCAG -1
 1 M A F P K M R L M Y I C L L V L G A L C L Y Y S M N 26
 1 ATGGCTTTCCGAAGATGAGATTGATGTATATCTGCCTTCTGGTTCTGGGGGCTCTTTGTTTGTATTATAGCATGAC 78
 27 S L N P F K E Q S F V Y K K D G N F L K L P D T D C 52
 79 AGTCTAAATCCTTTCAAAGAACAGTCCTTTGTTTACAAGAAAGACGGGAACCTTCCTTAAGCTCCAGATACAGACTGC 156
 53 R Q T P P F L V L L V T S S H K Q L A E R M A I R Q 78
 157 AGGCAGACACCTCCCTTCCTCGTCTGCTGGTGACCTCATCCACAAACAGTTGGCTGAGCGCATGGCCATCCGGCAG 234
 79 T W G K E R T V K G K Q L K T F F L L G T T S S A A 104
 235 ACGTGGGGGAAAGAGAGGACGGTGAAGGGAAGCAGCTGAAGACATTCTTCTCCTGGGGACCACCAGCAGTGCAGCG 312
 105 E T K E V D Q E S Q R H G D I I Q K D F L D V Y Y N* 130
 313 GAAACAAAAGAGGTGGACCAGGAGAGCCAGCGACGGGGACATTATCCAGAAGGATTTCTAGACGTCTATTACAAT 390
 131 L T L K T M M G I E W V H R F C P Q A A F V M K T D 156
 391 CTGACCCTGAAGACCATGATGGGCATAGAATGGGTCCATCGCTTTTGTCTCAGGCGGCGTTTGTGTATGAAAACAGAC 468
 157 S D M F I N V D Y L T E L L L K K N* R T T R F F T G 182
 469 TCAGACATGTTTCATCAATGTTGACTATCTGACTGAAGTCTTCTGAAGAAAAACAGAACAACAGGTTTTTCACTGGC 546
 183 F L K L N E F P I R Q P F S K W F V S K S E Y P W D 208
 547 TTCTTGAAACTCAATGAGTTTCCCATCAGGCAGCCATTACGCAAGTGGTTTGTCTAGTAATCTGAATATCCGTGGGAC 624
 209 R Y P P F C S G T G Y V F S G D V A S Q V Y N* V S K 234
 625 AGGTACCCACCATTCGCTCCGGCACCGGCTACGTGTTTTCTGGCGACGTGGCGAGTCAAGTGTACAATGTCTCCAAG 702
 235 S V P Y I K L E D V F V G L C L E R L N I R L E E L 260
 703 AGCGTCCCATACATTAAACTGGAAGACGTGTTTGTGGGGCTCTGCCTCGAAAGGCTGAACATCAGATTGGAGGAGCTC 780
 261 H S Q P T F F P G G L R F S V C L F R R I V A C H F 286
 781 CACTCCAGCCGACCTTTTTTCCAGGGGGCTTACGCTTCTCCGTATGCCTCTTCAGGAGGATCGTGGCCTGCCACTTC 858
 287 I K P R T L L D Y W Q A L E N S R G E D C P P V * 310
 859 ATCAAGCCTCGGACTCTCTTGGACTACTGGCAGGCTCTAGAGAATTCGCGGGGAGATTGTCCGCTGTCTGA... 933

FIGURE 1